

IN THE CLAIMS

Please amend the claims as follows.

For the Examiner's convenience, all pending claims are included below.

1. (Currently amended) A method for queuing control of variable bandwidth communications channels comprising:

detecting a change from a first bandwidth to a second bandwidth of a communication channel, the communication channel including a plurality of lines, wherein the change includes one or more lines of the plurality of lines becoming active and one or more lines of the plurality of lines being broken; and

calculating the second bandwidth based upon how many of the plurality of lines are broken;

adjusting a quality of service controller to compensate for the change from a the first bandwidth to a the second bandwidth;

providing the second bandwidth via a feedback loop to a transmission rate selector;

computing transmission rates;

queuing first data cells of having fixed transmission rates;

assigning a high transmission priority to the first data cells;

queuing second data cells having variable transmission rates; and

assigning a lower priority to the second data cells.

2. (Canceled)

3. (Currently amended) The method of claim 2 1, further comprising maintaining quality of service.

4. (Canceled)
5. (Currently amended) The method of claim 4 1, wherein a cell selector selects first and second queued cells for transmission based upon their associated priority.
6. (Currently amended) An apparatus comprising:
 - means for detecting a change from a first bandwidth to a second bandwidth of a communication channel, the communication channel including a plurality of lines, wherein the change includes one or more lines of the plurality of lines becoming active and one or more lines of the plurality of lines being broken; ~~and~~
 - means for calculating the second bandwidth based upon how many of the plurality of lines are broken; and
 - means for adjusting a quality of service controller to compensate for the change from a the first bandwidth to a the second bandwidth.
7. (Currently amended) The apparatus of claim 6, wherein the means for adjusting the quality of service controller further comprises:
 - ~~means for calculating the second bandwidth;~~
 - means for providing the second bandwidth via a feed back loop to a transmission rate selector; and
 - means for computing transmission rates.
8. (Previously presented) The apparatus of claim 7, further comprising:
 - means for maintaining quality of service.
9. (Original) The apparatus of claim 7 further comprising:

means for queuing first data cells of having fixed transmission rates;
means for assigning a high transmission priority to the first data cells;
means for queuing second data cells having variable transmission rates; and
means for assigning a lower priority to the second data cells.

10. (Original) The apparatus of claim 9, wherein a cell selector selects first and second queued cells for transmission based upon their associated priority.

11. (Currently amended) A computer-readable medium having stored thereon a plurality of instructions, said plurality of instructions when executed by a computer, cause said computer to perform the method of:

detecting a change from a first bandwidth to a second bandwidth of a communication channel, the communication channel including a plurality of lines, wherein the change includes one or more lines of the plurality of lines becoming active and one or more lines of the plurality of lines being broken; and

calculating the second bandwidth based upon how many of the plurality of lines are broken; and

adjusting a quality of service controller to compensate for the change from a the first bandwidth to a the second bandwidth.

12. (Currently amended) The computer-readable medium of claim 11 having stored thereon additional instructions, said plurality of instructions when executed by a computer, cause said computer to further perform the method of:

~~calculating the second bandwidth;~~

providing the second bandwidth via a feed back loop to a transmission rate selector; and
computing transmission rates.

13. (Original) The computer-readable medium of claim 12 having stored thereon additional instructions, said plurality of instructions when executed by a computer, cause said computer to further perform the method of maintaining quality of service.

14. (Original) The computer-readable medium of claim 12 having stored thereon additional instructions, said plurality of instructions when executed by a computer, cause said computer to further perform the method of:

- queuing first data cells of having fixed transmission rates;
- assigning a high transmission priority to the first data cells;
- queuing second data cells having variable transmission rates; and
- assigning a lower priority to the second data cells.

15. (Original) The computer-readable medium of claim 14 having stored thereon additional instructions, said plurality of instructions when executed by a computer, cause said computer to further perform the method of selecting first and second queued cells for transmission based upon their associated priority by the cell selector.

16 - 17. (Canceled)